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# 1. 2/19/1 (Item 1 from file: 351)

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 WPI Acc No: 97-508674/199747  
 XRAM Acc No: C97-162046  
 XRPX Acc No: N97-423734

~~Generating ozone without using nitrogen gas~~ where high voltage pulse is applied between high voltage electrode and earth to generate silent or planar discharge in oxygen flow

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Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
JP 9241007	A	19970916	JP 9680893	A	19960308	C01B-013/11	199747 B

Priority Applications (No Type Date): JP 9680893 A 19960308

Patent Details:

Patent	Kind	Lan	Pg	Filing	Notes	Application	Patent
JP 9241007	A		4				

Abstract (Basic): JP 9241007 A

Process is claimed for applying high voltage pulse (A) between a high voltage electrode and the earth to generate silent or planar discharge in oxygen flow to produce ozone, whose concentration is increased by making (A)'s rise to be very steep.

Facilities are equipped with a direct current power source, an inverter that generates alternating pulse voltage, a step up transformer that steps up the alternating pulse voltage, electrodes, and a device that rises discharge current in a short time.

USE - Used for producing ozone.

ADVANTAGE - This method can produce high concentrated ozone with high stability ~~without using nitrogen gas~~ as in conventional methods.

Dwg. 2/5

Title Terms: GENERATE; OZONE; NITROGEN; GAS; HIGH; VOLTAGE; PULSE; APPLY; HIGH; VOLTAGE; ELECTRODE; EARTH; GENERATE; SILENT; PLANE; DISCHARGE; OXYGEN; FLOW

Derwent Class: E36; J03; U24; X12

International Patent Class (Main): C01B-013/11

International Patent Class (Additional): H01T-023/00; H02M-009/04

File Segment: CPI; EPI

Manual Codes (CPI/A-N): E31-D03; J03-A

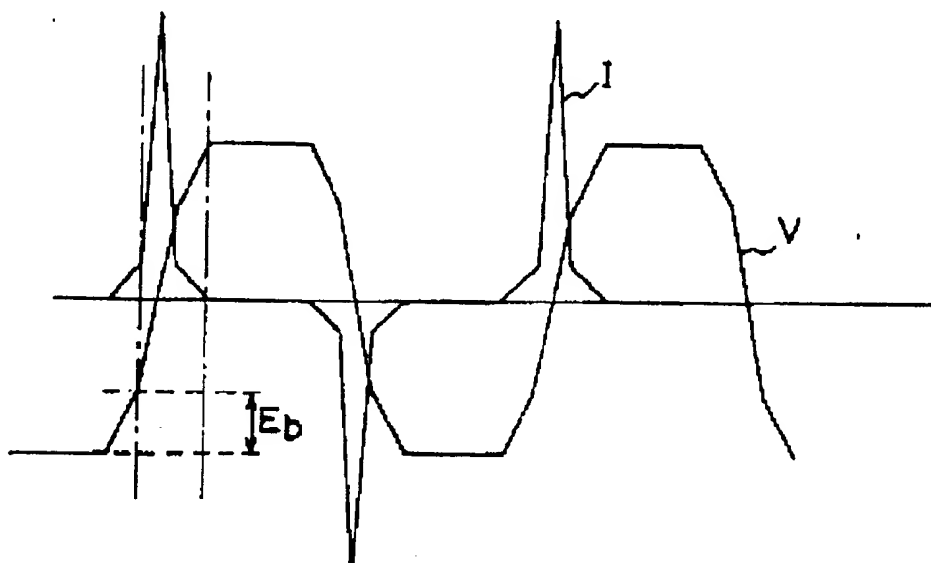
Manual Codes (EPI/S-X): U24-D09; X12-F03; X12-J09

Chemical Fragment Codes (M3):

\*01\* C408 C550 C810 M411 M720 M903 M904 M910 N120 R01887-P

Derwent Registry Numbers: 1887-P

Specific Compound Numbers: R01887-P



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